UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

01/26/2009

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

STAFIRA, MICHAEL PATRICK

ART UNIT PAPER NUMBER

2886 DATE MAILED: 01/26/2009

APPLICATION NO	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,657	12/13/2004	Enzo Di Fabrizio	Q85169	1372

TITLE OF INVENTION: APPARATUS FOR DETERMINING THE INTERNAL OUTLINE OF A DUCT OR CAVITY, AND IN PARTICULAR FOR DETERMINING THE INTERNAL IMPRESSION OF THE AUDITORY CANAL, A PROBE FOR THIS APPARATUS, AND REFLECTION DEVICE FOR AN OPTICAL SCANNING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 23373 7590 01/26/2009				w correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must					
				have	its own certificate	of mai	ling or transmission.		ο,
SUGHRUE M 2100 PENNSYI SUITE 800		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an en addressed to the Mail Stop ISSUE FEE address above, or being factransmitted to the USPTO (571) 273-2885, on the date indicated below.					ed with the United nail in an envelope or being facsimile ated below.		
WASHINGTON	N, DC 20037								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONF	RMATION NO.
10/517,657	12/13/2004	•	Enzo Di Fabrizio				Q85169		1372
TITLE OF INVENTION DETERMINING THE I FOR AN OPTICAL SCA	NTERNAL IMPRESSION	DETERMINING THE IN ON OF THE AUDITOR							
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055		04/27/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
STAFIRA, MICE	HAEL PATRICK	2886	356-241100						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11.Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (C	g an a	and STATE OR C	COUNT	'RY)		_
Please check the appropr	rate assignee category or	categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	oup entity	Government
4a. The following fee(s) are submitted: ☐ Issue Fee			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed.						
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.						
Advance Order -	# of Copies		The Director is he overpayment, to D	reby Depos	authorized to char	ge the	required fee(s), any de (enclose a		or credit any opy of this form).
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	_				ΓΙΤΥ status. See 37 Cl		,
NOTE: The Issue Fee an	d Publication Fee (if rea	uired) will not be accepte	d from anyone other th						
interest as shown by the	records of the United Sta	tes Patent and Trademark	COllice.						
Authorized Signature					Date				
Typed or printed name This collection of information is required by 37 CFR 1.311. The information					_				
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informati- U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th D NOT SEND FEES OR	on is required to obtain 1.14. This collection is to depending upon the i e Chief Information O COMPLETED FORM	or restindiving	etain a benefit by t mated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including s on the amount of times ark Office, U.S. Depo of TO: Commissioner	I by the Ug gatheri ne you reartment c for Paten	USPTO to process) ing, preparing, and equire to complete of Commerce, P.O. tts, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,657	12/13/2004	Enzo Di Fabrizio	Q85169	1372	
23373 75	590 01/26/2009	EXAMINER			
SUGHRUE MIC	N, PLLC	STAFIRA, MICHAEL PATRICK			
	ANIA AVENUE, N.W	ART UNIT	PAPER NUMBER		
SUITE 800 WASHINGTON, 1	DC 20037	2886 DATE MAILED: 01/26/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 245 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 245 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/517,657	DI FABRIZIO ET AL.
Notice of Allowability	Examiner	Art Unit
	/Michael P. Stafira/	2886
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s and MPEP 1308.	n this application. If not included unication will be mailed in due course. THIS
	<u> </u>	
2. The allowed claim(s) is/are <u>16-19</u> .		
 Acknowledgment is made of a claim for foreign priority ur a)	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. whitted. Note the attached EXA es reason(s) why the oath of the submitted. son's Patent Drawing Review s Amendment / Comment of	on No In this national stage application from the ear reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF declaration is deficient. In the Office action of
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	he header according to 37 CF sit of BIOLOGICAL MATI	R 1.121(d). ERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 7. ☐ Examiner's —	formal Patent Application ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

- 2. Claims 16-19 are allowed over the prior art of record.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 16, the prior art fails to disclose or make obvious an apparatus for determining the internal outline of a duct or cavity having conoscope means interposed between the receiving reflector means and the detection means and suitable for producing, with the light guided by the reflector means, a holographic image with concentric interference fringes which is detectable by the detection means, the periods of the fringes being correlated with the optical distance of the illuminated point, and in combination with the other recited limitations of claim 16.

Regarding claim 17, the prior art fails to disclose or make obvious a probe for an apparatus for determining the internal outline of a duct or cavity having the micro-mirror element is rotatably articulated to the probe arm element so as to be orientable in a radial plane relative to the probe arm element, wherein the micro-mirror element is integral to one end of a lever element articulated to the distal end of the probe arm element, the free end of the lever element being operable by a control rod element which is arranged parallel to the probe arm element and can translate along its longitudinal axis, and in combination with the other recited limitations of claim 17.

Art Unit: 2886

Regarding claim 18, the prior art fails to disclose or make obvious a probe for an apparatus for determining the internal outline of a duct or cavity having the micro-mirror element is rotatably articulated to the probe arm element so as to be orientable in a radial plane relative to the probe arm element, wherein an electrical current can flow through the micro-mirror element which is disposed between a pair of elongate conductor elements suitable for bringing about rotation of the micro-mirror as a result of the electrical currents passing through them, and in combination with the other recited limitations of claim 18.

Regarding claim 19, the prior art fails to disclose or make obvious a probe for an apparatus for determining the internal outline of a duct or cavity having the micro-mirror element is rotatably articulated to the probe arm element so as to be orientable in a radial plane relative to the probe arm element, wherein the probe arm element is made of ferromagnetic material and is wound up, along its length, by a winding capable of conducting current, the micro-mirror element also being made of ferromagnetic material, so that the rotation of the micro-mirror is brought about by a magnetic field produced by the current passing through the winding, and in combination with the other recited limitations of claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Michael P. Stafira/ whose telephone number is 571-272-2430. The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarifur Chowdhury can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael P. Stafira/ Primary Examiner Art Unit 2886

January 7, 2009